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Table 4 – Concentrated Load Deflection Tables for a Fixed-Fixed Span

Carbon Steel			
Style (lbs. Per sq. ft)		24-Inch Span	36-Inch Span
3.0#	Concentrated Load Capacity (lb./ft.)	2.74	126
	Deflection Under Allowed Concentrated Load (in.)	0.25	0.25
3.14#	Concentrated Load Capacity (lb./ft.)	340	117
	Deflection Under Allowed Concentrated Load (in.)	0.25	0.25
4.0#	Concentrated Load Capacity (lb./ft.)	468	201
	Deflection Under Allowed Concentrated Load (in.)	0.25	0.25
Aluminum			
Style (lbs. Per sq. ft)		24-Inch Span	36-Inch Span
2.0#	Concentrated Load Capacity (lb./ft.)	320	136
	Deflection Under Allowed Concentrated Load (in.)	0.25	0.25

Notes:

1. Concentrated load is applied at mid-span and is in units of pounds per foot of grating width
2. Deflection is at the mid-span, and is measured in inches.
3. The test specimens on which this table is measured were welded at alternative strands to an angle fixture. Testing shows that if the ends are not so welded, the capacity of the grating is drastically reduced.